

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): An apparatus for adhering paint chips in rows on sheets at predetermined locations thereon, the apparatus comprising:

a plurality of stations including an adhesive applying station upstream from swatch applying stations that deposit paint chips onto adhesive transferred to the sheets at the adhesive station;

a conveyor for advancing the sheet through the plurality of stations;

a sheet feeder upstream of the conveyor for sequentially supplying the sheets to the conveyor;

a gripping mechanism connected to the conveyor and having an open state for receiving sheets and a closed state for holding sheets received therein; and

a drive system for the conveyor and sheet feeder that coordinates timing of the supply of the sheets by the sheet feeder to the gripping mechanism so that the gripping mechanism shifts between the open and closed states thereof as the sheet is received therein with the gripping mechanism closing onto a leading edge of the received sheet to substantially maintain the leading edge of the sheet in a generally constant orientation for pulling the sheet downstream through the stations without interfering with operations of the adhesive applying station and swatch applying stations.

Claim 2 (Original): The apparatus of claim 1 wherein the gripping mechanism includes pivotal members having ends that are pivoted away from each other in the open state to face upstream toward the sheet feeder, the ends being pivoted toward each other in the closed state to clamp onto the sheet for pulling the sheet downstream on the conveyor.

Claim 3 (Original): The apparatus of claim 1 wherein the conveyor is an endless conveyor having a downstream travel path between a sheet supply end and a sheet discharge end with the stations therebetween, and

opening mechanisms at predetermined positions at the sheet supply and discharge ends of the endless conveyor which cooperate with the gripping mechanism to shift the gripping mechanism to the open state for receiving the sheets at the supply end and for releasing the sheets at the discharge end.

Claim 4 (Original): The apparatus of claim 1 wherein the gripping mechanism includes pivotal members, and

a cam mechanism at a predetermined position along the conveyor adjacent the sheet feeder for pivoting the gripping mechanism members to the open state as an incidence of the travel of the gripping mechanism attached to the conveyor past the cam mechanism.

Claim 5 (Original): The apparatus of claim 1 wherein the gripping mechanism includes a biasing mechanism for urging the pivotal members to the closed state with a predetermined bias force to securely hold the sheets received therein with the cam mechanism being operable to shift the pivotal members to the open state against the predetermined bias force.

Claim 6 (Original): The apparatus of claim 1 wherein the conveyor includes an upstream end adjacent the sheet feeder and lateral guides at the upstream end that are adjustable to align the sheets received from the feeder on the conveyor for downstream travel through the stations with the gripping mechanism operable between the guides to hold the sheets and pull the aligned sheets through the stations without need for additional guides associated with the stations.

Claim 7 (Currently Amended): An apparatus for adhering swatches in rows on sheets at predetermined locations thereon, the apparatus including:

an adhesive applying station for depositing adhesive on the predetermined locations on the sheet;

one or more swatch applying stations for placing swatches on the adhesive at the predetermined locations on the sheet;

a single set of sheet engaging members associated with a sheet for ~~advancing~~ pulling a leading edge of the sheet through the adhesive applying station and the swatch applying stations, the sheet engaging members having low profiles so as to fit between closely spaced operating members in operating areas of the adhesive applying station and the swatch applying stations.

Claim 8 (Canceled).

Claim 9 (Withdrawn): A method of forming sheets having swatches applied at predetermined locations thereon, the method comprising:

feeding a sheet to a gripper mechanism;

gripping a leading edge of the sheet with a gripper mechanism;

pulling the sheet with the gripper mechanism in a downstream direction through an adhesive applying station;

applying glue to the sheet at predetermined swatch locations at the adhesive applying station;

pulling the sheet in the downstream direction through one or more swatch stations with the same gripper mechanism that pulls the sheet through the adhesive applying station;

applying one or more swatches to the sheet at the predetermined swatch locations having glue thereon when the sheet is at the swatch station; and
releasing the gripper mechanism from the sheet.

Claim 10 (Withdrawn): The method of claim 9 wherein the leading edge of the sheet is gripped by opening jaws of the gripper mechanism, moving the leading edge of

the sheet between the jaws, and closing the jaws on the sheet at the leading edge thereof.

Claim 11 (Withdrawn): The method of claim 10 wherein the jaws of the gripper mechanism are opened by camming the jaws away from each other as an incidence of the travel of the gripper mechanism in the downstream direction.

Claim 12 (Withdrawn): The method of claim 10 wherein the leading edge of the sheet is moved between the jaws by lifting the leading edge of the sheet off from a feeding tray upstream of the gripper mechanism.

Claim 13 (Withdrawn): The method of claim 12 wherein the leading edge of the sheet is lifted from the feeding tray by drawing the leading edge of the sheet against a suction head and rotating the suction head and coordinating the timing of the suction head rotation and the opening of the jaws to shift the leading edge of the sheet into the open jaws.

Claim 14 (Withdrawn): The method of claim 10 wherein the jaws of the gripper mechanism are closed on the leading edge of the sheet by pivoting the jaws toward each other under the influence of a predetermined bias force.

Claim 15 (Withdrawn): The method of claim 9 wherein the sheet is pulled through the swatch applying stations by advancing the gripper mechanism in the downstream direction with the sheet via an endless drive chain traveling through the swatch applying stations.

Claim 16 (Withdrawn): The method of claim 9 wherein the sheet is released from the gripper mechanism by opening the jaws of the gripper mechanism as the sheet continues travel in the downstream direction and shifting the gripper mechanism away from the path of downstream travel.

Claim 17 (Withdrawn): The method of claim 16 wherein the jaws of the gripper mechanism are opened by camming the jaws away from each other as an incidence of the travel of the gripper mechanism in the downstream direction.

Claim 18 (Currently Amended): An apparatus for moving a sheet through machinery for applying swatches in a machine feed direction, the apparatus comprising:
a feeding station where a sheet is separated from a plurality of sheets in a stack;
a chain;
a gripper mechanism disposed on the chain adapted for gripping the sheet;
an adhesive applying station for applying glue to the sheet;
one or more swatch applying stations each having one or more operating cylinders having an axis of rotation perpendicular to the machine feed direction for applying one or more swatches to the sheet;
a receiving station for receiving the sheet after the sheet has been through the adhesive applying station and the swatch applying station;
wherein the gripper mechanism has an open position and a closed position;
wherein the gripper mechanism in the closed position pulls the sheet by a leading edge from the feeding station through the adhesive applying station and through the swatch applying station to the receiving station, the gripper mechanism passing beneath at least one of the one or more operating cylinders of at least one of the one or more swatch applying stations.

Claim 19 (Original): Apparatus in accordance with claim 18 wherein the gripper mechanism includes an upper jaw and a lower jaw pivotally hinged together by a pivot pin.

Claim 20 (Original): Apparatus in accordance with claim 18 wherein an end of the upper jaw has a gripping arm extending therefrom.

Claim 21 (Original): Apparatus in accordance with claim 20 wherein an end of the lower jaw has a gripping tab protruding therefrom.

Claim 22 (Original): Apparatus in accordance with claim 18 wherein the chain revolves around a forward gear with a cam thereby by the feeding station and a rearward gear with a cam thereby by the receiving station.

Claim 23 (Original): Apparatus in accordance with claim 22 wherein the lower jaw pivots about the pivot axis relative to the upper jaw to bring the gripper mechanism to the open position during contact with the cam by the forward gear or the rearward gear.

Claim 24 (Original): Apparatus in accordance with claim 21 wherein the gripper mechanism is biased towards the closed position by a spring, wherein the gripping arm of the upper jaw contacts the gripping tab of the lower jaw when the gripper mechanism is in the closed position.

Claim 25 (Original): Apparatus in accordance with claim 18 wherein the gripper mechanism pulls the sheet along one or more plates disposed beneath the adhesive station and the swatch applying station.

Claim 26 (Original): Apparatus in accordance with claim 25 wherein the plates are arranged with slots for the gripper mechanism to protrude through.

Claim 27 (Withdrawn): An apparatus for moving a sheet through machinery for applying swatches, the apparatus comprising:

- a driven sprocket with a cam thereby;
- an idler sprocket with a cam thereby;
- an endless drive chain extending between the driven sprocket and the idler sprocket;
- an upper jaw and a lower jaw rotatably hinged together on the drive chain;

a spring biasing the upper jaw and the lower jaw into contact;
wherein the upper jaw is moved out of contact with the lower jaw when the upper jaw is in contact with the cam by the driven sprocket or the idler sprocket.

Claim 28 (Withdrawn): An apparatus in accordance with claim 27 wherein a sheet is inserted between the upper jaw and the lower jaw when the upper jaw is in contact with the cam by the idler sprocket.

Claim 29 (Withdrawn): An apparatus in accordance with claim 28 wherein one or more suction heads insert the sheet between the upper jaw and the lower jaw when the upper jaw is in contact with the cam by the idler sprocket.

Claim 30 (Withdrawn): An apparatus in accordance with claim 28 wherein the sheet is gripped between the upper jaw and the lower jaw when the upper jaw is not in contact with the cam by the idler sprocket.

Claim 31 (Withdrawn): An apparatus in accordance with claim 28 wherein the gripper mechanism with the sheet gripped between the upper jaw and the lower jaw is pulled by the drive chain through an adhesive applying station and one or more swatch applying stations.

Claim 32 (Withdrawn): An apparatus in accordance with claim 28 wherein the sheet is removed from between the upper jaw and the lower jaw when the upper jaw is in contact with the cam on the driven sprocket.